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OPINIONS RENDERED BY THE INTERNATIONAL
COMMISSION ON ZOOLOGICAL
NOMENCLATURE¹

OPINION 66

NEMATODE AND GORDIACEA NAMES PLACED IN THE OFFICIAL LIST
OF GENERIC NAMES

SUMMARY.—The following Nematode and Gordiacea names are hereby placed in the Official List of Generic Names: *Ancylostoma*, *Ascaris*, *Dracunculus*, *Gnathostoma*, *Necator*, *Strongyloides*, *Trichostrongylus*, *Gordius*, and *Paragordius*.

STATEMENT OF CASE.—The Secretary of the Commission submitted to a special Advisory Committee certain generic names of parasites reported for man with request that said Advisory Committee give to the International Commission the benefit of its ideas in regard to said names as coming into consideration in connection with the International Official List of Generic Names. The names in question have already been published in *Science*, March 29, 1912, page 507, in the proceedings of the Ninth International Zoological Congress, 1914, pages 858 to 859, and in the *Zoologischer Anzeiger*, 1912, p. 558.

The special committee, consisting of Prof. Max Braun (Königsberg), Prof. A. Railliet (Alfort), Prof. H. B. Ward (Urbana), Dr. B. H. Ransom (Secretary, Washington, D. C.), has submitted the following report:

To the International Commission on Zoological Nomenclature:

Committee report on names of *Nematoda* and *Gordiaceae*

The undersigned members of a committee of five requested by your Secretary to consider the generic names of *Nematoda* and *Gordiaceae* hereinafter men-

¹ Pagination continuous with Publication 1938, Opinions 1 to 26; Publication 1989, Opinions 26 to 29; Publication 2013, Opinions 30 to 37; Publication 2060, Opinions 38 to 51; Publication 2169, Opinions 52 to 56; and Publication 2256, Opinions 57 to 65.

tioned, with reference to their inclusion in an Official List of Generic Names, beg leave to submit the following report:

In preparing this report we have taken into consideration the views of 68 zoologists, physicians, and veterinarians, as expressed in replies to a circular, a copy of which is herewith submitted. A synopsis of the replies to this circular is also submitted.

We recommend the adoption of the following names, all of which, so far as we have been able to determine by careful study, are nomenclatorially valid.

Ancylostoma (Dubini, 1843a,¹ 5-13) emendation Creplin, 1845a, 325, type *duodenale* (in Homo; Italy).

Ascaris Linnæus, 1758a, 644, 648, type *lumbricoides* (in Homo; Europe).

Dracunculus Reichard, 1759, 12, type *medinensis* (in Homo).

Gnathostoma Owen, 1836f, 123-126, type *spinigerum* in (*Felis tigris*; London).

Necator Stiles, 1903l, 14; type *americanus* (in Homo; U. S. A.).

Strongyloides Grassi, 1879f, 497, type *intestinalis* = *stercoralis* (in Homo).

Trichostrongylus Looss, 1905O, 413-417, type *retortæformis* (in *Lepus timidus*; Europe).

Gordius Linnæus, 1758a, 644, 647, type *aquaticus* (free; Europe).

Paragordius Camerano, 1897g, 368, 399-402, type *varius* (free; Europe).

Signed by:

M. BRAUN, A. RAILLIET, B. H. RANSOM, H. B. WARD.

BUREAU OF ANIMAL INDUSTRY

WASHINGTON, D. C., November 18, 1913.

Professor Max Braun, Zoological Institute, Königsberg, Prussia.

Professor Arthur Looss, Government Medical School, Cairo, Egypt.

Professor A. Railliet, Ecole National Veterinaire, Alfort, France.

Professor B. H. Ward, University of Illinois, Urbana, Illinois.

Gentlemen.—A copy of this letter is sent to each of the gentlemen mentioned above.

In order to obtain additional information relative to the names of genera of Nematoda and Gordiacea contained in the list submitted to the special committee for study and report by the Section on Nomenclature of the last International Zoological Congress, I sent out, last July, 167 circulars similar to those enclosed. The circulars were intended particularly to bring out any objections which might exist in various quarters with regard to any of the names. Most of those to whom circulars were sent were parasitologists, but a good many zoologists not immediately interested in parasitology, and a few physicians and veterinarians were also included in the list. The list was largely made up from my own list of correspondents, otherwise the names were chosen more or less at random. Replies were received from 77 of those to whom circulars were sent; 9 of these declined to vote, so that altogether 68 voted on the names.

Forty-six acceded to all the names without expressed reservation, as follows: G. Allesandrini, M. Braun, N. Cholodkovsky, J. B. Cleland, A. F. Conradi,

¹ For full bibliographic references see Stiles and Hassall, Index Catalogue of Medical and Veterinary Zoology.

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W. W. Cort, Oswaldo Cruz, W. C. Curtis, E. V. Daday, E. Dietz, C. A. Ewald, B. Galli Valerio, J. Goldberger, M. C. Hall, A. Hassall, K. Heider, A. Henry, R. Hertwig, S. J. Johnston, C. A. Kofold, H. Krabbe, F. Lahille, G. R. LaRue, O. v. Linstow, A. Lutz, G. A. MacCallum, F. R. S. Monticelli, M. Neveu-Lemaire, Wm. Nicoll, H. Osborn, R. v. Ostertag, A. S. Pearse, L. Plate, C. E. Porter, A. Railliet, W. A. Riley, L. G. Sourat, A. E. Shipley, J. W. W. Stephens, C. W. Stiles, Georgina Sweet, T. Studer, L. D. Swingle, F. V. Theobald, L. Van Es, F. Zschokke.

H. B. Ward accepted all the names, but reserved opinion as to authors, dates, and types noted in the circular list.

A. Brauer accepted all the names, but accepted *Dracunculus* on the condition that *Filaria* was retained for *F. martis*, otherwise not.

Ancylostoma was accepted by W. B. Herme, A. Collin, H. F. Nachtrieb, L. Gedoelst, O. Maas, R. Heymons, J. W. Spengel, S. Goto, O. Fuhrmann, G. Neumann, W. T. Councilman, R. T. Leiper, E. R. Stitt. Not voting on *Ancylostoma*, R. P. Strong, L. Camerano, G. H. F. Nuttall, A. Jacobi. J. S. Kingsley accepts *Ancylostoma* if amended to *Anchylostomum*. J. Guiart objects to *Ancylostoma*, but would accept *Ankylostoma*, or preferably *Ankylostomum*. E. Brumpt would substitute *Ankylostomum* for *Ancylostoma*.

Total in favor of *Ancylostoma*, including the 48 names first given, 61.

Ascaris was accepted by E. Brumpt, A. Collin, W. T. Councilman, O. Fuhrmann, L. Gedoelst, S. Goto, J. Guiart, W. B. Herms, R. Heymons, J. S. Kingsley, R. T. Leiper, O. Maas, R. F. Nachtrieb, G. Neumann, G. H. F. Nuttall, J. W. Spengel, E. R. Stitt, R. P. Strong. L. Camerano and A. Jacobi did not vote on *Ascaris*.

Total in favor of *Ascaris*, including the 48 names first given, 66.

Dracunculus was accepted by E. Brumpt, W. T. Councilman, J. Guiart, W. B. Herms, R. Heymons, J. S. Kingsley, R. T. Leiper, O. Maas, G. Neumann, E. R. Stitt, R. P. Strong. Not voting on *Dracunculus*, L. Camerano, O. Fuhrmann, G. H. F. Nuttall.

Brauer's opinion relative to *Dracunculus* has already been noted. A Collin states that it seems to him desirable to retain *Filaria* instead of recognizing *Dracunculus*. O. Fuhrmann asks if *F. medinensis* is not an *Ichthyonema*. L. Gedoelst and H. F. Nachtrieb question *Dracunculus* without further comment. S. Goto votes against *Dracunculus* "because it will supplant the universally known *Filaria*." A. Jacobi votes against *Dracunculus* with the comment that *Filaria medinensis* is to be preferred to *D. medinensis* because it is the established name of a species frequently referred to from medical and geographical standpoints. J. W. Spengel votes against *Dracunculus* because the genus appears to him a doubtful one, inasmuch as, so far as his knowledge goes, it has not been proved to be distinct from *Filaria*.

Total in favor of *Dracunculus*, including the 47 names first given, 58.

Gnathostoma was accepted by E. Brumpt, A. Collin, W. T. Councilman, O. Fuhrmann, L. Gedoelst, S. Goto, J. Guiart, R. T. Leiper, H. F. Nachtrieb, G. Neumann, E. R. Stitt. Not voting, L. Camerano, W. B. Herms, R. Heymons, A. Jacobi, J. S. Kingsley, G. H. F. Nuttall, J. W. Spengel, R. P. Strong. O. Maas questions *Gnathostoma* without further comment.

Total in favor of *Gnathostoma*, including the 48 names first given, 59.

Necator was accepted by E. Brumpt, A. Collin, W. T. Councilman, O. Fuhrmann, L. Gedoelst, S. Goto, J. Guiart, W. B. Herms, R. T. Leiper, H. F.

Nachtrieb, G. Neumann, G. H. F. Nuttall, J. W. Spengel, E. R. Stitt, R. P. Strong. Not voting, R. Heymons, A. Jacobi, J. S. Kingsley. O. Maas questions *Necator* without comment.

Total in favor of *Necator*, including the 48 names first given, 63.

Strongyloides was accepted by E. Brumpt, A. Collin, W. T. Councilman, O. Fuhrmann, L. Gedoelst, S. Goto, J. Guiart, W. B. Herms, R. T. Leiper, O. Maas, H. F. Nachtrieb, G. Neumann, J. W. Spengel, E. R. Stitt, R. P. Strong. Not voting, L. Camerano, R. Heymons, A. Jacobi, J. S. Kingsley, G. H. F. Nuttall.

Total in favor of *Strongyloides*, including the 48 names first given, 63.

Trichostrongylus was accepted by E. Brumpt, A. Collin, W. T. Councilman, O. Fuhrmann, L. Gedoelst, S. Goto, J. Guiart, R. T. Leiper, H. F. Nachtrieb, G. Neumann, E. R. Stitt. Not voting, L. Camerano, W. B. Herms, R. Heymons, A. Jacobi, J. S. Kingsley, G. H. F. Nuttall, J. W. Spengel, R. P. Strong. O: Maas questions *Trichostrongylus* without further comment.

Total in favor of *Trichostrongylus*, including the 48 names first given, 59.

Gordius was accepted by E. Brumpt, L. Camerano, A. Collin, O. Fuhrmann, L. Gedoelst, S. Goto, J. Guiart, W. B. Herms, R. Heymons, J. S. Kingsley, R. T. Leiper, O. Maas, H. F. Nachtrieb, J. W. Spengel. Not voting, W. T. Councilman, A. Jacobi, G. Neumann, G. H. F. Nuttall, E. R. Stitt, R. P. Strong.

Total in favor of *Gordius*, including the 48 names first given, 62.

Paragordius was accepted by E. Brumpt, L. Camerano, A. Collin, O. Fuhrmann, L. Gedoelst, S. Goto, J. Guiart, H. F. Nachtrieb, H. W. Spengel. Not voting, W. T. Councilman, W. B. Herms, R. Heymons, A. Jacobi, J. S. Kingsley, R. T. Leiper, G. Neumann, G. H. F. Nuttall, E. R. Stitt, R. P. Strong. O. Maas questions *Paragordius* without further comment.

Total in favor of *Paragordius*, including the 48 names first given, 57.

SUMMARY

	For	Against	Doubt-ful	Not Voting
<i>Ancylostoma</i>	61	3	..	4
<i>Ascaris</i>	66	2
<i>Dracunculus</i>	58	3	4	3
<i>Gnathostoma</i>	59	..	1	8
<i>Necator</i>	63	..	1	3
<i>Strongyloides</i>	63	5
<i>Trichostrongylus</i>	59	..	1	8
<i>Gordius</i>	62	6
<i>Paragordius</i>	57	..	1	10

Please give the generic names in question early consideration, and sign and return to me the accompanying report if it accords with your ideas in the matter.

If not in harmony with your opinions, I shall be glad to receive a special report, which I shall submit with the rest of the reports from the Committee, to the International Commission.

Very respectfully,
(Signed) B. H. RANSOM.

[SAMPLE CIRCULAR]

UNITED STATES DEPARTMENT OF AGRICULTURE,
BUREAU OF ANIMAL INDUSTRY,

WASHINGTON, D. C., July 2, 1913.

Dear Sir.—The undersigned is acting on behalf of a special committee selected by the International Commission on Zoological Nomenclature to study the names of the Nematoda (and Gordiacea), particularly the names of nematodes which have been recorded as parasites of man. The other members of the committee are Prof. Max Braun, Prof. Arthur Looss, Prof. A. Railliet, and Prof. H. B. Ward. The names of genera given in the accompanying list were adopted by the International Commission at its last meeting, but the Section on Nomenclature of the International Zoological Congress requested that the names be resubmitted to the special committee for further study and report. Please vote "Yes" or "No" on each name according as you approve or disapprove its inclusion in an official list of generic names, and in case of disapproval of any name supply the data which render the adoption of the name undesirable. By your cooperation you will materially assist the committee in preparing its report. A prompt reply will be highly appreciated not only by the committee, but also by the Bureau of Animal Industry, which is greatly interested in the establishment of a stable nomenclature, particularly in the case of those parasitic organisms which have to be considered in the study, control, and eradication of diseases, and in meat inspection.

Your vote should be returned not later than October 1, 1913.

Very respectfully,

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Secretary, Special Committee on Nomenclature of Nematoda.

[SAMPLE VOTING SHEET]

NAMES OF NEMATODA AND GORDIACEA FOR THE OFFICIAL LIST OF GENERA

Vote "Yes" or "No" on each of the following names according as you approve or disapprove its inclusion in the Official List of Zoological Names. Additional expressions of opinion may be given on the reverse of this sheet. For complete reference to articles in which the names were first published, see the Index-Catalogue of Medical and Veterinary Zoology.

Return before October 1, 1913, to Chief Zoologist, Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C.

NEMATODA		VOTE YES OR NO
<i>Ancylostoma</i> (Dubini, 1843a, 5-13) emendation Creplin, 1845a, 325, type <i>duodenale</i> (in <i>Homo</i> ; Italy).....	
<i>Ascaris</i> Linnæus, 1758a, 644, 648, type <i>lumbricoides</i> (in <i>Homo</i> ; Europe)
<i>Dracunculus</i> "Kniphof, 1759, 12" (not verified); Gallandat, 1773a, 103-116, type <i>medinensis</i> (in <i>Homo</i>)....	
<i>Gnathostoma</i> Owen, 1836f, 123-126, type <i>spinigerum</i> (in <i>Felis tigris</i> ; London).....	
<i>Necator</i> Stiles, 1903y, 312, type <i>americanus</i> (in <i>Homo</i> ; U. S. A.).....	
<i>Strongyloides</i> Grassi, 1879f, 497, type <i>intestinalis</i> = <i>stercoralis</i> (in <i>Homo</i>).....	
<i>Trichostrongylus</i> Looss, 1905O, 413-417, type <i>retortæformis</i> (in <i>Lepus timidus</i> ; Europe).....	
GORDIACEA		
<i>Gordius</i> Linnæus, 1758a, 644, 647, type <i>aquaticus</i> (free; Europe)
<i>Paragordius</i> Camerano, 1897g, 368, 399-402, type <i>varius</i> (free; Europe)
(Signature).....	

DISCUSSION.—On basis of the report by the Advisory Committee as given in the foregoing, the Secretary of the Commission submitted said list of names to the International Commission with the recommendation that the names be accepted. The result of the voting is as follows:

Recommendation concurred in by 14 commissioners: Apstein, Bather, Blanchard, Hartert, Horvath, Hoyle, Jordan (D. S.), Jordan (K.), Monticelli, Roule, Schulze, Skinner, Stejneger, Stiles.

Not voting: Allen, Dautzenberg, and Kolbe.

Vacancy in Commission: one.